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Respectfully submitted,

By Michele M. Simkin

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**"Version of the Specification with Markings to Show Changes Made"**

Page 22, please replace the fourth paragraph with the following:

--The ribozymes are hammerhead (Riddell *et al.*, 1996) structures of the following general structure:

Helix I	Helix II	Helix III
5'-NNNNNNNN ~	CUGAUGAGGCCGAAAGGCCGAA <u>(SEQ ID NO: 15)--</u>	~NNNNNNNN ~

Please replace the paragraph bridging pages 22-23 with the following:

--The cleavage sites, targeting *gag* and *pol*, with the essential GUX triplet (where X is any nucleotide base) are as follows:

GAG 1	5' UAGUAAGAAUGUAUAGCCCUAC <u>(SEQ ID NO: 16)</u>
GAG 2	5' AACCCAGAUUGUAAGACUAUUU <u>(SEQ ID NO: 17)</u>
GAG 3	5' UGUUUCAAUUGUGGCAAAGAAG <u>(SEQ ID NO: 18)</u>
GAG 4	5' AAAAAGGGCUGUUGGAAAUGUG <u>(SEQ ID NO: 19)</u>
POL 1	5' ACGACCCCUCGUCACAAUAAAAG <u>(SEQ ID NO: 20)</u>
POL 2	5' GGAAUUGGAGGUUUUAUCAAAG <u>(SEQ ID NO: 21)</u>
POL 3	5' AUAUUUUUCAGUUCCCUUAGAU <u>(SEQ ID NO. 22)</u>
POL 4	5' UGGAUGAUUUGUAUGUAGGAUC <u>(SEQ ID NO: 23)</u>
POL 5	5' CUUUGGAUGGGUUUAUGAACUCC <u>(SEQ ID NO: 24)</u>
POL 6	5' CAGCUGGCACUGUCAAUGACAU <u>(SEQ ID NO: 25)</u>
POL 7	5' AACUUUCUAUGUAGAUGGGGCA <u>(SEQ ID NO: 26)</u>
POL 8	5' AAGGCCGCCUGUUGGUGGGCAG <u>(SEQ ID NO: 27)</u>
POL 9	5' UAAGACAGCAGUACAAUUGGCA <u>(SEQ ID NO: 28)</u> —

Page 23, please replace the second full paragraph with the following:

--The HCMV/HIV-1 hybrid 3' LTR is created by recombinant PCR with three PCR primers (Figure 2). The first round of PCR is performed with RIB1 and RIB2 using pH4 (Kim *et al.*, 1998) as the template to amplify the HIV-1 HXB2 sequence 8900-9123. The second round of PCR makes the junction between the 4' end of the HIV-1 U3 and

the HCMV promoter by amplifying the hybrid 5' LTR from pH4. The PCR product from the first PCR reaction and RIB3 serves as the 5' primer and 3' primer respectively.

RIB1: 5' CAGCTGCTCGAGCAGCTGAAGCTTGCATGC 3' (SEQ ID NO: 29)

RIB2: 5' GTAAGTTATGTAACGGACGATATCTTGTCTTCTT 3' (SEQ ID NO: 30)

RIB3: 5' CGCATAGTCGACGGGCCGCACTGCTAGAGATTTTC 3' (SEQ ID NO: 31)--

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Please replace the paragraph bridging pages 27 and 28 with the following:

--Egs 1/1A (SEQ ID NO. 5)

(SEQ ID NO: 5) 5'-tcgagccggggatgacgtcatcgacttcgaaggttcgaaatccttctactgccaccattttt  
cggggccctactgcagtagctgaagcttccaagcttaggaagatgacggtgtaaaaaa  
ctctacgtcatcgacttcgaaggttcgaaatccttccgtccaccagtgcacc-3'  
gagatgcagtagctgaagcttccaagcttaggaagggacaggtggtcagctggagct-5' (SEQ ID NO: 32)

Egs 2/2A (SEQ ID NO. 6)

(SEQ ID NO. 6) 5'-tcgagtattacgtcatcgacttcgaaggttcgaaatccttctagattcaccattttaggaacg  
cataatgcagtagctgaagcttccaagcttaggaagtactaagtggtaaaaaatcctgc  
tcatcgacttcgaaggttcgaaatccttccagttccaccagtgcacc-3'  
agtagctgaagcttccaagcttaggaaggtcaaggtggtcagctggagct-5' (SEQ ID NO. 33)

Egs 3/3A (SEQ ID NO. 7)

(SEQ ID NO. 7) 5'-tcgaggccaacgtcatcgacttcgaaggttcgaaatcctcttcccaccatttttcc  
ccggttgcagtagctgaagcttccaagcttaggaagagaagggtggtaaaaaaaagg  
ctgaacgtcatcgacttcgaaggttcgaaatcctctgtgtcaccagtgcacc-3'  
gacttgcagtagctgaagcttccaagcttaggaagacgcacagtggtcagctggagct-5' (SEQ ID NO. 34)

Egs 4/4 (SEQ ID NO. 8)

(SEQ ID NO. 8) 5'-tcgagggctacgtcatcgacttcgaaggttcgaaatcctcttgcttcaccattttt  
cccgatgcagtagctgaatgcttccaagcttaggaagaacgaagtggtaaaaaaa  
ctgaacgtcatcgacttcgaaggttcgaaatcctctgtgtcaccagtgcacc-3'  
gacttgcagtagctgaagcttccaagcttaggaagacgcacagtggtcagctggagct-5' (SEQ ID NO. 35)

Egs 5/5A (SEQ ID NO. 9)

(SEQ ID NO. 8) 5'-tcgagtataacgtcatcgacttcgaaggttcgaaatcctcaccggtcaccatttttata  
catattgcagtagctgaagcttccaagcttaggaagtggccagtggtaaaaaaatat  
acgtcatcgacttcgaaggttcgaaatccttcttacaccaggtcgacc-3'  
tgcatcgacttcgaaggttcgaaatccttcttacaccaggtcgacc-3' (SEQ ID NO. 36)

Egs 6/6A (SEQ ID NO. 10)

(SEQ ID NO. 10) 5'-tcgaggtacacgtcatcgacttcgaaggttcgaaatcctcgtagttcaccattttgtgc  
ccatgtgcagtagctgaagcttccaagcttaggaagcatcaagtggtaaaaaacacg  
acgtcatcgacttcgaaggttcgaaatccttcttacaccaggtcgacgcacgcatgcc-3'  
tgcatcgacttcgaaggttcgaaatccttcttacaccaggtcgacgcacgcatgcc-3' (SEQ ID NO. 37)—